

# ADM415

## SAP S/4HANA - Performance Analysis

### COURSE OUTLINE

Course Version: 23

Course Duration:

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# Typographic Conventions

American English is the standard used in this handbook.

The following typographic conventions are also used.

This information is displayed in the instructor's presentation		
Demonstration		
Procedure		
Warning or Caution		
Hint		
Related or Additional Information		
Facilitated Discussion		
User interface control		<i>Example text</i>
Window title		<i>Example text</i>



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# Course Overview

## **TARGET AUDIENCE**

This course is intended for the following audiences:

- Technology Consultant
- System Administrator
- System Architect





## **Lesson 1: Analyzing the Components of a Dialog Step**

### **Lesson Objectives**

After completing this lesson, you will be able to:

- Analyze the components of a dialog step

## **Lesson 2: Describing Statistical Records and the Workload Monitor**

### **Lesson Objectives**

After completing this lesson, you will be able to:

- Describe statistical records and the workload monitor



## **Lesson 1: Analyzing SAP System Performance**

### **Lesson Objectives**

After completing this lesson, you will be able to:

- Describe SAP performance monitors

## **Lesson 2: Appendix: Configuring Dynamic Work Processes**

### **Lesson Objectives**

After completing this lesson, you will be able to:

- Configure dynamic work processes

## **Lesson 3: Appendix: Analyzing and Improving ICM Performance**

### **Lesson Objectives**

After completing this lesson, you will be able to:

- Appendix: Analyzing ICM Performance



## Lesson 1: Describing SAP Memory Areas

### Lesson Objectives

After completing this lesson, you will be able to:

- Describe the SAP memory areas

## Lesson 2: Understanding SAP Memory Allocation

### Lesson Objectives

After completing this lesson, you will be able to:

- Describe the SAP memory allocation

## Lesson 3: Implementing SAP Extended Memory

### Lesson Objectives

After completing this lesson, you will be able to:

- Implement SAP extended memory



## Lesson 1: Analyzing Hardware Bottlenecks

### Lesson Objectives

After completing this lesson, you will be able to:

- Describe hardware bottlenecks

## Lesson 2: Optimizing Hardware Utilization

### Lesson Objectives

After completing this lesson, you will be able to:

- Optimize hardware utilization





## Lesson 1: Describing Table Buffering in SAP Systems

### Lesson Objectives

After completing this lesson, you will be able to:

- Describe table buffering in SAP systems

## Lesson 2: Analyzing Table Buffering

### Lesson Objectives

After completing this lesson, you will be able to:

- Analyze table buffering



## Lesson 1: Exploring RFC Basics

### Lesson Objectives

After completing this lesson, you will be able to:

- Describe RFC basics

## Lesson 2: Monitoring RFC Load and Solving RFC Load Problems

### Lesson Objectives

After completing this lesson, you will be able to:

- Monitor RFC load and solve RFC load problems



## Lesson 1: Introducing SAP HANA Cockpit 2.0

### Lesson Objectives

After completing this lesson, you will be able to:

- Describe the basic functionality of the SAP HANA Cockpit tools.

## Lesson 2: Using the SAP HANA Cockpit Performance Analysis Tools

### Lesson Objectives

After completing this lesson, you will be able to:

- Use the SAP HANA Cockpit tools to analyze memory and CPU performance.



## UNIT 8

# Using SAP Solution Manager for Performance Analysis

### **Lesson 1: Introduction to SAP Solution Manager Root Cause Analysis Tools**

#### **Lesson Objectives**

After completing this lesson, you will be able to:

- Describe the basic functionality of SAP Solution Manager Root Cause Analysis

### **Lesson 2: Using SAP Solution Manager Root Cause Analysis Tools for Performance Analysis**

#### **Lesson Objectives**

After completing this lesson, you will be able to:

- Using SAP Solution Manager to detect Performance Issues

### **Lesson 3: Appendix: SAP Solution Manager Additional Tools**

#### **Lesson Objectives**

After completing this lesson, you will be able to:

- Understand how additional features in SAP Solution Manager helps you to solve performance issues





### Lesson 1: Detecting Expensive SQL Statements

#### Lesson Objectives

After completing this lesson, you will be able to:

- Detect Expensive SQL Statements
- Explain why even a few expensive SQL statements may reduce the performance for the whole SAP system
- Use the corresponding monitors to detect expensive SQL statements

### Lesson 2: Analyzing and Tuning Expensive SQL Statements

#### Lesson Objectives

After completing this lesson, you will be able to:

- Analyze and tune expensive SQL statements
- Optimize database access